

# FILE NOTATIONS

Entered in NID File ✓

Entered On S R Sheet ✓

Location Map Pinned ✓

Card Indexed ✓

IWR for State or Fee Land ✓

Checked by Chief ✓

Copy NID to Field Office ✓

Approval Letter ✓

Disapproval Letter ✓

## COMPLETION DATA:

Date Well Completed 12-29-64 Location Inspected ✓

OW ✓ WW ✓ TA ✓

Bond released ✓

GW ✓ OS ✓ PA ✓

State of Fee Land ✓

## LOGS FILED

Driller's Log 4-2-65

Electric Logs (No. 3)

E ✓ I ✓ E-I ✓ GR ✓ GR-N ✓ Micro ✓

Lat ✓ Mi-L ✓ Sonic ✓ Others ✓

*Submitted Report of [unclear]*

SUPERVISOR, OIL AND GAS OPERATIONS:

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of oil and gas lease

DISTRICT LAND OFFICE: **Salt Lake City, Utah**  
SERIAL NO.: **W-024491**

and hereby designates

NAME: **Union Oil Company of California**  
ADDRESS: **234 North Center Street**  
**Casper, Wyoming**

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to (describe acreage to which this designation is applicable):

**Township 8 South, Range 18 East**

**Section 27: SW/4 SE/4**

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the oil and gas supervisor of any change in the designated operator.

**PAN AMERICAN PETROLEUM CORPORATION**

By:  113

(Signature of lessee)  
**Its Attorney-in-Fact**

**October 28, 1944**

(Date)

**P. O. Box 40, Casper, Wyoming**

(Address)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Union Oil Company of California

## 3. ADDRESS OF OPERATOR

254 N. Center, Casper, Wyoming

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

SW 1/4 Sec. 27, T8S, R18E

460' FSL and 1977' FSL, Sec. 27, T8S, R18E

At proposed prod. zone

SW SE ✓

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

## 5. LEASE DESIGNATION AND SERIAL NO.

Federal U-024491

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

## 8. FARM OR LEASE NAME

Government 691

## 9. WELL NO.

1

## 10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., S., M., OR BLK.  
AND SURVEY OR AREA

Sec. 27, T8S, R18E

## 12. COUNTY OR PARISH

Utah

## 13. STATE

Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

1487

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

6500'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4802' Ground (before grading)

## 22. APPROX. DATE WORK WILL START\*

Nov. 1, 1964

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/8"	10-3/4"	40.5	400'	To surface

Union Oil Company of California proposes to drill a 6500' Gross River test at the above location. ✓

Plan of Procedure: Drill 13-3/8" hole to approximately 400'. Run and cement to surface 400' of 10-3/4" - 40.5# casing. ✓ Drill 7-7/8" hole to approximately 6500' using low solids conventional mud. ✓ Drill stem test and core as deemed necessary by well site geologist. ✓ Complete as indicated by tests and logs. ✓

Utah State approval verbally obtained from Mr. Paul Burchell on 10/28/64 per telephone conversation w/ R.D. Engobner. ✓

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

*R.D. Engobner*

TITLE

Petroleum Engineer

DATE

10/28/64

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

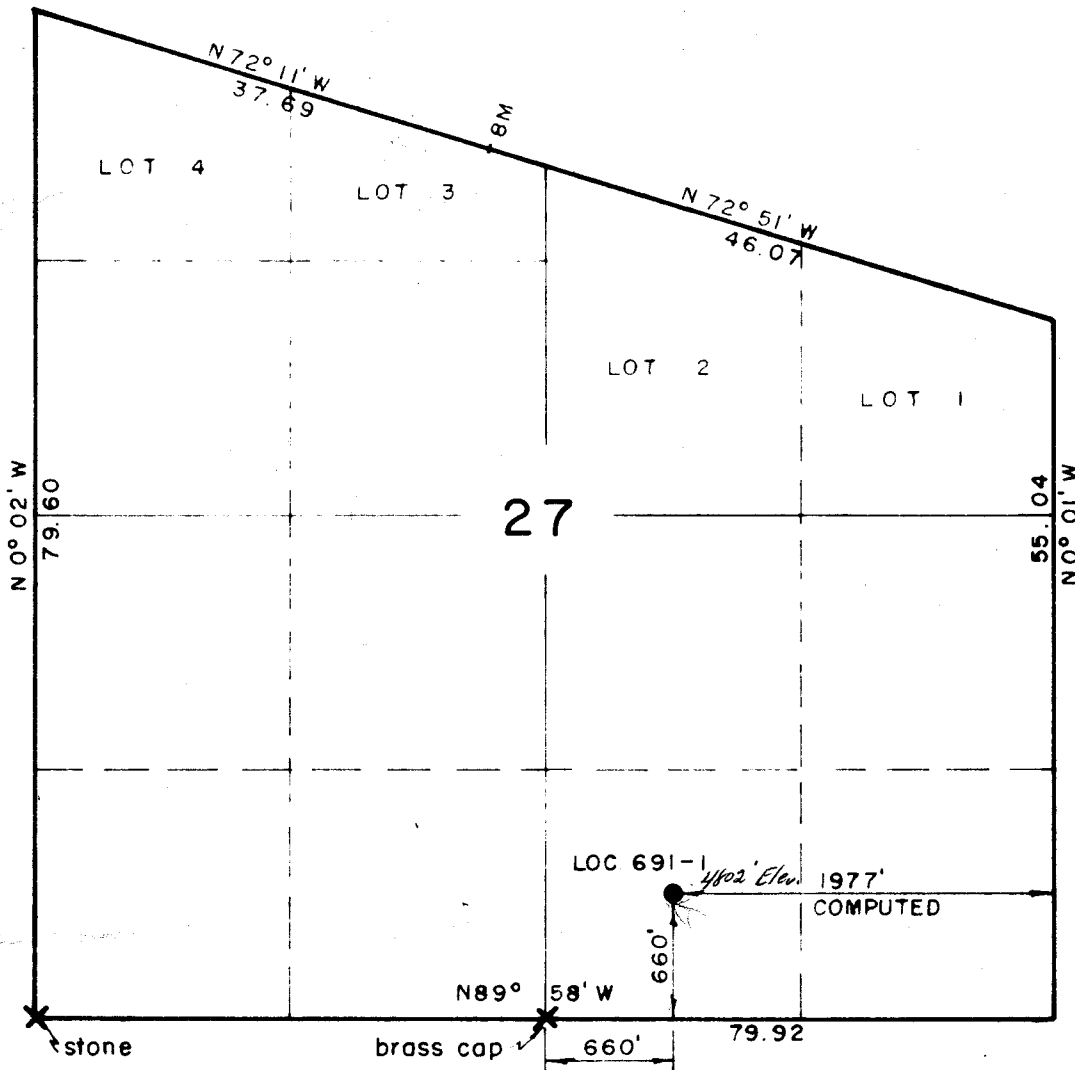
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

# T8S, R18E, SLB & M



✕ Corners found

JOINT ENGINEERING  
& LAND SURVEYING

P. O. Box 339  
Vernal, Utah

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

*John Marshall*  
Registered Land Surveyor  
Utah Registration No. 1114

PARTY N. MARSHALL  
G. LANDON

**SURVEY**  
UNION OIL COMPANY WELL LOCATION 691-1, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 SEC 27, T8S, R18E, SLB & M, UINTAH COUNTY, UTAH

DATE 18 OCT. 1964  
REFERENCES  
G.L.O. PLAT

FILE UNION OIL CO.

WEATHER FAIR - WINDY

October 30, 1964

Union Oil Company of California  
234 N. Center Street  
Casper, Wyoming

Attention: Mr. R. O. Engebuetsen, Petroleum Engineer

Re: Notice of Intention to Drill Well No.  
GOVERNMENT 691-#1, 660' FSL & 1977' FSL,  
SW SE of Sec. 27, T. 8 S., R. 18 E.,  
SEEM, Uintah County, Utah.

Gentlemen:

This letter is to confirm verbal approval given by Paul W. Burchell, Chief Petroleum Engineer, to drill the above mentioned well, on October 28, 1964.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer  
Office: DA 8-5771 or DA 8-5772  
Home: GR 7-2890 - Salt Lake City, Utah

This approval terminates within 90 days if this well has not been spudded within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,  
OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT  
EXECUTIVE DIRECTOR

CBF:kgv

cc: Rodney Smith, Dist. Eng., U. S. Geological Survey, Salt Lake City, Utah  
H. L. Coonts, Pet. Eng., Oil & Gas Conservation Commission, Moab, Utah

Carol  
Dale  
NIP SH

✓

PLUGGING PROSPECT FORM

Name of Company Homer Oil Co. Verbal Approval Given To: Lon Amatt

Well Name: Gr. 691-1 <sup>SW SE</sup> Sec. 27 T. 8S R. 18E County: \_\_\_\_\_

(Parrotts Branch #627)

Verbal Approval was given to plug the above mentioned well in the following manner:

Plugged - USGS  
Dec. 29, 1964

Isolator  
Water  
flow  
↓  
Natrone  
Water (bitter taste)

5750 - 5850 - 30 ft → 1st gravel above water  
4500 - 4600 - 30 ft → top of Harder Gulch  
1550 - 1650 - 30 ft → top of Oil shale  
367 - 467 - 30 ft → shore of surface  
10 ft at surface.

Date Verbally Approved: \_\_\_\_\_

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLI  
(Other instructions  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.  
LEASE DESIGNATION AND SERIAL NO.

Federal U-024691

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
APPLICATION FOR PERMIT- for such proposals.)

W. J. M.

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Union Oil Company of California	8. FARM OR LEASE NAME Government 691
3. ADDRESS OF OPERATOR 254 North Center, Casper, Wyoming	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW SE Sec 27, T8S, R18E 660' FSL, 1977' FEL, Sec 27, T8S, R18E	10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4802' ground
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data	12. COUNTY OR PARISH Uintah
	13. STATE Utah

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent work and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface location and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Formation Tops from Logs:

Spud - Uintah

Oil Shale - 1590'

Green River - 1590'

Parachute Creek - 2930'

Garden Gulch - 4545'

Black Shale Facies - 5505'

Wasatch Tongue - 5680'

Green River Tongue - 6035'

Wasatch - 6220'

The following program to P&A will be followed in accordance with verbal approval from R. A. Smith, District Engineer in Salt Lake City, Utah.

5750-5850 30 sxs across first porosity above Wasatch

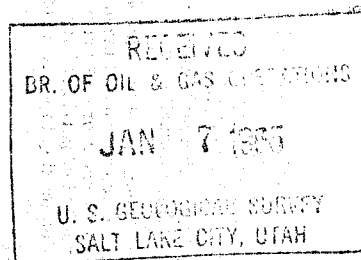
4500-4600 30 sxs across top of Garden Gulch

1550-1650 30 sxs across top of oil Shale

367-467 30 sxs across base of surface shoe

Surface 10 sxs at top of surface pipe

Marker



18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Petroleum Engineer

DATE 1/5/65

(This space for Federal or State office use)

APPROVED BY (LONG. SCD) R. A. SMITH

TITLE DISTRICT ENGINEER

DATE JAN 7 1965

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

COPY RETAINED DISTRICT OFFICE

January 12, 1965

Union Oil Company of California  
254 N. Center Street  
Casper, Wyoming

Re: Well No. Government 691-#1,  
Sec. 27, T. 8 S., R. 18 E.,  
Uintah County, Utah.

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the month of November, 1964, for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1b, (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER  
RECORDS CLERK

KGW:sch

Encl: Forms



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# Union Oil Company of California

254 NORTH CENTER—SUITE 1



CASPER, WYOMING 82601

January 15, 1965

Re: Well No. Government 691 #1  
Sec. 27, T. 8 S., R. 18 E.  
Uintah County, Utah

The State of Utah  
Oil & Gas Conservation Commission  
348 East South Temple  
Suite 301  
Salt Lake City, Utah

Gentlemen:

Complying with your request of January 12, 1965 we are transmitting herewith the following:

Three Zerox copies of approved Application For Permit to Drill, Form 9-331 C.

Three Zerox copies of approved Notice of Intention to Abandon, Form 9-331

Three Zerox copies of Union Oil Company chronological drilling report.

The enclosed information is considered confidential, and it would be appreciated if you would handle ~~it as such.~~

Yours very truly,

*W. J. Mansbridge* J.B.

W. J. Mansbridge  
Division Petroleum Engineer

Enc's

jb

March 23, 1965

Union Oil Company of California  
254 Center Street  
Casper, Wyoming

Re: Well No. Government 691-#1,  
Sec. 27, T. 8 S., R. 18 E.,  
Uintah County, Utah.

Gentlemen:

This letter is to advise you that the "Well Completion or Recompletion Report and Log" for the above mentioned well is due and has not been filed with this Commission as required by our rules and regulations.

Please complete the enclosed Forms OGCC-3, "Well Completion or Re-completion Report and Log", in duplicate and forward them to this office and soon as possible.

Thank you for your cooperation in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER  
RECORDS CLERK

kgw

Enclosure: Forms

Please Note: All information on this well will be held Confidential.

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
348 EAST SOUTH TEMPLE  
SUITE 301  
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: Government 691 #1

Operator Union Oil Company of California Address 254 N. Center Phone 23 4-9185

Casper, Wyoming

Contractor Pioneer Drilling Address Casper, Wyoming Phone \_\_\_\_\_

Location SW 1/4 SE 1/4 Sec. 27 T. 8 <sup>XX</sup>S R. 18 <sup>E</sup>XX Uintah County, Utah.

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1. 3499	3923	Not Measured	Salty at start, changed
2. Depth while drlg.		Not sufficient to	to brine type water
3.		stop drilling	
4.			
5.			

(Continued on reverse side if necessary)

Formation Tops:

Remarks:

- NOTE: (a) Upon diminishing supply of forms, please inform the Commission  
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form)  
(c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

UNION OIL COMPANY

CASING RECORD

WELL NO. 691 No. 1

## DRILLING REPORT

Pariette Bench  
(FIELD)Uintah County, Utah  
(COUNTY)6500' Green River  
(TOOLS)SEC. 27 T. 8S R. 18 E B. & M.

(PERIOD ENDING)

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTHS		INCLINATION		DETAILS OF OPERATIONS, DESCRIPTIONS AND RESULTS
		FROM	TO	DEPTH	CORRECT ANGLE	
				(NOTE MAKE OF INSTRUMENT)		
	11/6					Location 660' FSL, 1977' FEL, Sec 27-T8S-R18E. Moving in contractors equipment. Expect to rig up 11-8 and 11-9 and spud evening of 11-9-64.
	11/9					11/7 - 11-9 MI Contractors equip. RU 11/9. Will spud late tonight or tomorrow morning.
	11/10					Rigging Up. Repaired traveling plug. Will finish RU today and spud tomorrow.
	11/11					Finished RU.
	11/12					Attempting to set conductor csg, drilled to 20', cmtd. Drlg rat hole. Spud and gravel w/ water are caving badly.
	11/13					Spud this morning 11/13/64 with 13-3/4" bit. Drilling @ 40'. <i>6 AM</i>
	11/14					Drlg 9" @ 157', conductor csg @ 6'. Snow is 18"-24" deep. Crews can't get in and out. Last crew in @ midnight 11-13 and 11-14.
	11/15					Drlg @ 400' w/9" hole, dev 1 deg @ 400', out of gravel @ 290'. Changed crews last evening still pushing snow. Can get in w/4 wheel drive.
	11/16					Reaming 9" - 13-3/4" @ 148'. Drld 9" to 425'.
	11/17					Circ to run surface @ 419'.
	11/18					TD 421', WOC. Ran 13 jts 10-3/4" csg, set @ 419', cmt w/280 sx, plugged down 5:50 P.M. 11/17. Nippling up blow-out preventer.
	11/19					Nippled up, drlg mouse hole. Having rough time w/gravel.
	11/20					Drilling @ 889', 3/4 degrees, 790' @ midnight.
	11/21					TD 1192', fishing. Twisted off jt of DP just above top DC. (Fish is 16 DCs, tool jt. and short stub of DP) Dev 3/4 deg @ 1120.
	11/22					TD 1192', fishing. Could not get hold of tool jt. Prep to run mill to mill off DP down 10 collars.

UNION OIL COMPANY

CASING RECORD

WELL NO. 691 No. 1

## DRILLING REPORT

(FIELD)

(COUNTY)

(TOOLS)

SEC. T. R. B. &amp; M.

(PERIOD ENDING)

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTHS		INCLINATION		DETAILS OF OPERATIONS, DESCRIPTIONS AND RESULTS
		FROM	TO	DEPTH	CORRECT ANGLE	
				(NOTE MAKE OF INSTRUMENT)		
	11/23					Drilling @ 1254', rec fish, back drilling @ 3:15 A.M.
	11/24					Fishing @ 1452', 1/2 Deg @ 1377' Twisted off 1:15 AM, left 19 DCs and stub of DP in hole.
	11/25					Tripping @ 1773'. Dev 1/2 Deg @ 1587'. Out of Hole. Have Tuboscope checking all DCs for cracks. Sample Top: Green River 1510'. Small gas kick (70 units) in Green River Shale.
	11/26					Drlg @ 2131', dev 3/4 deg @ 2010'.
	11/27					Drlg @ 2480', dev 1 deg @ 2432'.
	11/28					Drlg @ 2650'.
	11/29					Drlg @ 2815', bit #13 in hole. Dev 1-1/4 deg @ 2808'.
	11/30					Drlg @ 3074', Dev 1/4 deg @ 2941'. Mud: 9.4 wt, 34 vis.
	12/1					Tripping @ 3307', Dev 1/4 deg @ 3307'. Mud: 9.3 wt, vis 34, WL 10, FC 2/32. (out of gauge hole, reaming back to bottom.)
	12/2					Tripping @ 3499', made 193' in last 24 hrs. Dev 1 1/2 @ 3314'. Drilling in shale. 300 units total gas, 60% Methane, 40% Ethane at 3460'.
	12/3					Drilling @ 3652', dev 1-1/4 deg @ 3648'.
	12/4					Mixing mud to kill water flow, TD 3808'. Dev 1° @ 3791'.
	12/5					Tripping @ 3923', Mud: 10.5, WL 11, ph 8.5, vis 45, FC 2/32.
	12/6					Drlg @ 4089', Dev 1 deg @ 4068'. Mud 10.6, holding flow ok.
	12/7					TD 4205', sh. Bit #23 in @ 4169', Mud Wt 10.6, vis 42 WL 8 cc, FC 2/32, pH 8.5, 1/4 of 1% sd, 6% solids, 4% oil.
	12/8					Drlg 4336', dev 1 1/2 @ 4273', bit 24 OWC Hughes went in hole @ 4273'. Mud wt 10.6, vis 43, wl 7.2, FC 2/32, pH 8.5, 1/4 of 1% sd, 6% solids, 6% oil, 17 hrs drlg, 6 1/4 hrs for 1 1/2 trips, 3/4 survey.

DIVISION ENGINEER

UNION OIL COMPANY

CASING RECORD

WELL NO. 691 No. 1

## DRILLING REPORT

(FIELD)

(COUNTY)

(TOOLS)

SEC. T. R. B. &amp; M.

(PERIOD ENDING)

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTHS		INCLINATION		DETAILS OF OPERATIONS, DESCRIPTIONS AND RESULTS
		FROM	TO	DEPTH	CORRECT ANGLE	
	12/9					TD 4435', testing. Drilling break 4422-32', circ samples, ss, brown, fine grained, good P&P, oil sat. Dull yellow fluor, fair cut, gas increase 48 units Methane, Ethane, & Propane. Now running DST #1, 4422-35'.
	12/10					Making trip @ 4541'. Dev 1 deg @ 4375', drlg in sh. DST #1, 4410-4435': Op 30 min, wk blw, died in 15 min, SI 30 min, Op 30 min, wk blw died in 20 min, SI 30 min. Rec 60' mud w/ specks of high pour point oil. IHP 2398, IFP 12, FFP 12, SI 42, FSI 42, FHP 2410, bottom hole temp 118 deg.
	12/11					Trip @ 4564', Bit 28. Mud 10.4, vis 44, W.L 6.2, FC 2/32 pH 9, sd content 0, solids 10, oil 8%.
	12/12					Dev 492', dev 1-1/4 deg @ 4752'
	12/13					Dev 4920', dev 1 deg @ 4843'.
	12/14					Drlg 5032', dev 1 deg @ 4951'. Mud 10.6, vis 49, wl 6.8, pH 9, FC 2/32, 7% oil.
	12/15					Drilling @ 5160'. Mud 10.6, vis 46, WL 7.9, pH 9, FC 2/32, sd 0, solids 10%, oil 8%, dev 1 deg @ 5056'. Bit 31 L20WV 105, 17.
	12/16					TD 5312', made 180', dev 1 deg @ 5312'. Mud: wt 10.7, vis 54, WL 5.6, FC 2/32, pH 9, 0 sd content, 11% solids 6% oil. 5294-98' drlg break, 5202-12' drlg break, sd gry to brn, very fn grn & poorly sorted, friable, dull fluor, gd cut, 84 units, gas rise on mud logging unit methane, ethane, propane, butane. Prep to core after test.
	12/17					TD 5324', coring. (Corrected depth 5312 to 5307' 12/16) DST #1, 5289-5307': Op 5 min, SI 30 min, Op 30 min, SI 30 min, wk to stdy blw 1st 5 min, wk blw died in 5 min during 2nd open period. Rec 20' sli o-g-c-m, IHP 3004, FHP 3004, ISIP 91, FSIP 70, IFP 40, FFP 50, BHT 134°. Cored 5307-5324'.

UNION OIL COMPANY

CASING RECORD

WELL NO. Gov't 691 #1

## DRILLING REPORT

(FIELD)

(COUNTY)

(TOOLS)

SEC. T. R. B. & M.

(PERIOD ENDING)

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTHS		INCLINATION		DETAILS OF OPERATIONS, DESCRIPTIONS AND RESULTS
		FROM	TO	DEPTH	CORRECT ANGLE	
				NOTE MAKE OF INSTRUMENT		
	12/18					Drlg @ 5428'. Cored 5307-5356'. Core #1: Rec 49' sh, grey, hard, dolomitic, no P&P. Dev 1 deg @ 5307'. Mud: Vis 48, wt. 10.6, WL 6.6, pH 8.5, FC 2/32, 0% sd, 10% solids, 5% oil.
	12/19					Drlg 5725'. Mud 10.6, vis 47, WL 8, pH 7.5, FC 2/32, 10% solids, 5% oil, dev 1 deg @ 5518'.
	12/20					Drlg 5874'. Dev: 2-1/2 deg @ 5750'; 2-3/4 deg @ 5874'. Estimated Tops: "W" Zone Marker - 6050'; Wasatch - 6220'. Estimated TD 6350'. Mud: wt 10.6, vis 46, WL 7.0, pH 7.5, FC 2/32.
	12/21					Drlg @ 6050'. Dev 2-1/2 deg @ 5949'. Mud: wt 10.9, vis 46, WL 6.8, pH 9, FC 2/32. No shows.
	12/22					TD 6257', drlg. Mud: wt 10.6, vis 48, wl 6.9, FC 2/32, pH 9, oil 6%, solids 11%. Dev 2-1/2 deg @ 6211'. Bit #38 in @ 6050', out @ 6211'. Bit #39 in @ 6211'. Sample Top: Wasatch - 6220'.
	12/23					TD 6284', conditioning hole to log. While drlg @ 6284' pump pressure fell off suddenly, started pulling out of hole, pulled 3275' drill pipe, drill pipe parted just above drill collars, drill collars fell to bottom, finished pulling pipe. Pipe had washed out at top of tool joint went back in with overshot, fished out drill collars, all three cones from bit were lost on bottom. Due to cones in hole decided to bottom hole at this point rather than 6350'. Conditioning hole to log. Lots of sh in hole from torn up condition when collars fell.
	12/24					TD 6284', finished logging. Prep to run DST #3, 5730-5770. 7' of good sand. Will possibly test 5249-5260'.
	12/25					Ran IES micro lateral gamma sonic and caliper logs. Log Tops: Uintah-surface 1590'; Oil Shale - 1590-1605'; Green River - 1590'; Parachute Creek - 2930'; Garden Gulch - 4545'; Black Sh Facies - 5505'; Wasatch Tongue - 5680'; Green River Tongue - 6035'.
	12/26					Attempted DST #3, 5730-70', seated pkr 5 times, pkrs failed to hold. Pulled out of hole, water in creek along side of rig rose 8' to where rig was in danger of being flooded. Ran back in hole and circ from 12 midnight 12/24 to 4:00 PM 12/26.

DIVISION ENGINEER

UNION OIL COMPANY

CASING RECORD

WELL NO. \_\_\_\_\_

## DRILLING REPORT

(FIELD)

(COUNTY)

SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ B. &amp; M. \_\_\_\_\_

(TOOLS)

(PERIOD ENDING)

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE	DEPTHS		INCLINATION		DETAILS OF OPERATIONS, DESCRIPTIONS AND RESULTS
		FROM	TO	DEPTH	CORRECT ANGLE	
				NOTE MAKE OF INSTRUMENT		
	12/27					Ran DST #3, 5743-TD. Tool open 60 min, shutin 60 min, open 60 min, SI 60 min. First hour fair blow throughout. Second hour lesser blow dying in 50 min, dead last 10 min. Rec 780' sli o & g-c-m, less than 5% oil. IFP 93, FFP 387, ISIP 2870, FSIP 2243, BHP 3244, FHP 3271.
	12/28					Attempted DST #4, 5354-TD. Seated hookwall pkr 5 times Hookwall would not hold, pulled out of hole, ran S/J formation interval tester, found hole bridged at 5660, could not test interval 5749-51'. Testing 5357-59'.
	12/29					S/J FIT 5357-59: ISI 2412' in 15 minutes, initial sampling pressure 125 in 40 minutes, rec 2200 cc's in 2800 cc capacity, less than .25% formation water, remainder filtrate water, resistivity .7 ohm Meters at 100 degrees, faint yellow fluor, probably due to deisel oil in mud or shale oil. Calculated permeability 85 md, final SIP 2562 in 15 minutes, HP 3162. S/J FIT 4963-65: ISI 2395 in 25 minutes, sampling pressure 70 psi in 60 min., FSI 2395 in 27 min., HP 2875. Recovery free gas 0, 7250 cc's water. Resistivity filtrate .62 at 100 degrees. Estimate formation water 10%, calculated permeability 0.4 md. Attempted test @ 4418-20, could not get seal due to thin or possibly no mud kick. Laid down DCs went in hole w/drill pipe, spotted cement plugs @ 5750-5850. 30 sx; 4500-4600. 30 sx; 1550-1650 30 sx; 367-467 30 sx; surface 10 sx. Released contractors rig @ 2:00 A.M. 12/29/64. FINAL REPORT.

DIVISION ENGINEER



GOV'T 691- #1 93-047-11359

DRILL STEM TESTS

- DST #1: 4409-4424' 15'  
Initial open 30 minutes - weak blow dead in 15 minutes.  
IHP 2398#; ISIP 42# 30 minutes; IFP 18#; FFP 18# 30  
minutes - weak blow dead in 25 minutes; FSIP 42# 30  
minutes; FHP 2410; BHT 118° F.  
Recovered 60' drilling mud with flecks of high pour  
point oil.
- DST #2: 5289-5307' 18'  
Initial open 5 minutes - weak steady blow.  
IHP 3004#; ISIP 91# 30 minutes; IFP 40#; FFP 50# 30  
minutes - weak blow dead in 5 minutes; FSIP 70# 30  
minutes; FHP 3004#; BHT 134° F.  
Recovered 20' slightly oil and gas cut drilling mud.
- DST #3: 5743-6284' 541'  
Initial open 60 minutes - fair steady blow throughout.  
IHP 3244; ISIP 2870# 60 minutes; IFP 93#; FFP 387# 60  
minutes - fair to weak blow died in 50 minutes; FSIP  
2243# 60 minutes; FHP 3271#; BHT 133° F.  
Recovered 780' slightly oil and gas cut drilling mud  
less than 5% oil.
- DST #4: 5354-5365' 11' Misrun.
- DST #5: 5357-5359' 2' Schlumberger wire line formation tester.  
Initial sampling pressure 125# in 40 minutes. No free gas.  
Recovered 20,200 cc water (20,800 cc maximum capacity),  
less than .25% formation water; rest mud filtrate, resis-  
tivity .7 ohms @ 100° F. Faint yellow fluor on water,  
no oil in water.  
ISIP 2412# in 15 minutes; FSIP 2562# in 15 minutes;  
HP 3162#. Calculated permeability 85 md.
- DST #6: 4963-4965' 2' Schlumberger wire line formation tester.  
Sampling pressure 70# in 60 minutes. No free gas. Recovered  
7250 cc water. Estimated 10% formation water, resistivity  
.62 ohms @ 100° F. No oil in sample.  
ISIP 2395# in 25 minutes; FSIP 2395# in 27 minutes;  
HP 2875#. Calculated permeability .4 md.
- DST #7: 4418-4420' 2' Schlumberger wire line formation tester.  
Misrun.

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.

Federal U-024691

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Government 691

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 27, T8S, R18E

12. COUNTY OR PARISH  
Uintah13. STATE  
Utah1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

254 N. Center

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 660' FSL, 1977' FEL Sec. 27-T8S-R18E

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

11/12/64

16. DATE T.D. REACHED

12/23/64

17. DATE COMPL. (Ready to prod.)

P&amp;A

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

4801' Gr; 4812' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD &amp; TVD

6284'

21. PLUG, BACK T.D., MD &amp; TVD

-

22. IF MULTIPLE COMPL., HOW MANY\*

-

23. INTERVALS DRILLED BY

→

ROTARY TOOLS

0-6284'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

25. WAS DIRECTIONAL SURVEY MADE

no

26. TYPE ELECTRIC AND OTHER LOGS RUN

I-ES, SL-GR, MLL, CDS

27. WAS WELL CORRED

yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4"	40.5	400'	13-3/8	280 SX	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)		
DATE OF TEST		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
				→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
		→						

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

DATE

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	NAME	MEAS. DEPTH TRUE VERT. DEPTH
	5307	5312	Core #1, 5307-5356', cut 49', rec 49': Sh, dk gy-blk, dolo, hd, dense, less than 10 dip condodial fracture	
	5312	5315	Sh, aa w/thin more dolo streaks (beds)	
	5315	5317	Sh, aa, no streaks, very massive	
	5317	5318	Sh, aa w/pyrite inclusions	
	5318	5324	Sh, aa, massive	
	5324	5327	Sh, aa w/biotite flecks	
	5327	5330	Sh, aa, massive	
	5330	5331	Sh, aa w/biotite flecks	
	5331	5334	Sh, aa massive	
	5334	5335	Sh, aa w/thin (1/32") bed sh, olive grn, waxy, not dolo, soft	
	5335	5337	Sh, aa, massive w/some biotite flecks	
	5337	5338	Sh, aa w/pyrite inclusion	
	5338	5339	Sh, aa w/brn and olive green hues	
	5399	5342	Sh, aa w/streaks (beds) varying degrees of dolomitization	
	5342	5346	Sh, aa, massive	
	5346	5349	Sh, aa, massive, w/biotite flecks	
	5349	5350	Sh, aa, massive, very dolomitic	
	5350	5351	Sh, lt gy-gy, limy, hd, dense	
	5351	5352	Sh, gy-dk gry, hd, dense, limy, w/dk brn inclusions (possible fossil of small 1/2" vert.)	
	5352	5354	Sh, dk gy-blk, hd, dense, massive, dolo	
	5354	5355	Sh, aa, w/biotite flecks	
	5355	5356	Sh, aa, w/disseminated pyrite	

APR 2 1965

April 2, 1965

Union Oil Company of California  
254 N. Center  
Casper, Wyoming

Re: Well No. Government 691-#1  
Sec. 27, T. 8 S., R. 18 E.,  
Uintah County, Utah

Plugged and Abandoned Date  
All Electric Logs  
Water Encountered During Drilling  
(Form OGCC-8-X)

Gentlemen:

We are in receipt of your "Well Completion or Recompletion Report and Log" for the above mentioned well. However, upon checking this information, we note that the above information was omitted from this report.

Please submit to this office said information as soon as possible.

Thank you.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER  
RECORDS CLERK

kgw  
Enclosure - Forms

Please Note: All information on this well will be held Confidential.

# Union Oil Company of California

254 NORTH CENTER—SUITE 1



CASPER, WYOMING 82601

April 6, 1965

Re: Government 691 No. 1  
Sec 27-78S-R18E  
Uintah County, Utah

The State of Utah  
Oil & Gas Conservation Commission  
348 East South Temple  
Suite 301  
Salt Lake City, Utah 84111

Gentlemen:

Complying with your request of April 2, 1965, we are enclosing the following well material:

Form OGCC-8-X (Water Encountered During Drilling) - 3 copies

Induction-Electrical Log, Microlog, Sonic Log-Gamma Ray

The subject well was plugged and abandoned December 29, 1964.

Very truly,

W. J. Mansbridge

*W. J. Mansbridge* JB

jb

Enc's

July 29, 1965

Union Oil Company of California  
254 North Center  
Suite #1  
Casper, Wyoming 82601

Re: Well No. Government 691-#1  
Sec. 27, T. 8 S., R. 18 E.,  
Uintah County, Utah

Gentlemen:

This letter is to advise you that the Subsequent Report of Abandonment and Plugging of the above mentioned well is due and has not been filed with this Commission as required by Rule D-2, General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

Thank you for your attention to this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER  
RECORDS CLERK

kgw

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat		5. LEASE DESIGNATION AND SERIAL NO. Federal U-024691
2. NAME OF OPERATOR Union Oil Company of California		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 254 North Center - Casper, Wyoming		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface		8. FARM OR LEASE NAME Government 691
14. PERMIT NO.		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4802' Gr		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 27, T8S, R18E
		12. COUNTY OR PARISH Uintah
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The following program was followed in plugging and abandoning the well:

5750-5850 - 30 sxs cement across first porosity above Wasatch  
4500-4600 - 30 sxs cement across top of Garden Gulch  
1550-1650 - 30 sxs cement across top of oil shale  
367-467 - 30 sxs cement across base of surface shoe  
Surface - 10 sxs cement at top of surface pipe  
Marker

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Petroleum Engineer

DATE 8/5/65

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: